

Roll No.

Total No. of Pages : 3

1(CCE.M)3
Zoology-I
(24)

Time : Three Hours]

[Maximum Marks : 300

INSTRUCTIONS

- (i) Answers must be written in English.
- (ii) The number of marks carried by each question is indicated at the end of the question.
- (iii) The answer to each question or part thereof should begin on a fresh page.
- (iv) Your answer should be precise and coherent.
- (v) The part/parts of the same question must be answered together and should not be interposed between answers to other questions.
- (vi) Candidates should attempt questions **1** and **5** which are compulsory and any **three** more out of the remaining questions selecting at least **one** from each Section.
- (vii) If you encounter any typographical error, please read it as it appears in the text-book.
- (viii) Candidates are in their own interest advised to go through the General Instructions on the back side of the title page of the Answer Script for strict adherence.
- (ix) No continuation sheets shall be provided to any candidate under any circumstances.

- (x) Candidates shall put a cross (x) on blank pages of Answer Script.
- (xi) No blank page be left in between answer to various questions.
- (xii) No programmable Calculator is allowed.
- (xiii) No stencil (with different markings) is allowed.

SECTION–A

1. Write notes on any **three** of the following :
 - (a) Polymorphism
 - (b) Affinities of Urodels
 - (c) Migrations of Birds
 - (d) Parasitism in Crustaceans. 25×3=75
2. Give an account of different types of larvae of Echinodermates. Add a brief note on their evolutionary significance. 50
3. Give an account of the life cycle of Malarial parasite in human and its pathogenecity. Discuss its characteristic features for differentiating various species. 50
4. Differentiate between poisonous and non-poisonous snakes with suitable diagrams. Add a note on poisonous apparatus of snakes. 50

SECTION–B

5. Write notes on any **three** of the following :
 - (a) Ecological succession
 - (b) Seasonal rhythm
 - (c) Hazards of water pollutants
 - (d) Pollinators. 25×3=75
6. Describe hormones and their different types. Discuss their role in animal behaviour. 50

7. (a) Describe the life history of *Dysdercus koengii* and the damage caused by it alongwith control measures.
- (b) Write an essay on biological control agents of insect pests of crops. 50
8. (a) What are threatened species ? Describe the objectives, strategies and methods of their conservation.
- (b) Describe the problems in wildlife conservation and management. 50